

Work Order ID 132217

Monday, May 04, 2015 7:55:25 AM

132217

Page 1

Item ID: D3322-041 Accept *N900040100* Setup Start *NS1*
Revision ID: Stop *NS2*
Item Name: Pod Assembly
Start Date: 7/10/2015 Start Qty: 1.00 *1* Cust Item ID:
Required Date: 7/10/2015 Req'd Qty: 1.00 *1* Customer:
Reference:

Approvals: Process Plan: CL Date: MAR 04 2015 Tooling: _____ Date: _____ Run Start *NR1*
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D2202	REV G								
D3322	Rev A								

100

0.00

100

Purchasing

Purchasing

PURCHASING

Memo

Issue P/O: 28357

Description:

D2202-1 Pod Lid D2202-5 Pod Base

Supplier: Delastek

Copy of Certificate of Conformity and Process sheet from Delastek is required

SHIP TO DELASTEK QTY (1) D3048-1

QTY (3) D3001-1

0.00

CL MAR 05 2015

(1)

110

Receive & Inspect for Damage & Mat'l Certs

0.00

110

Packaging

Packaging

Memo

Ensure certificate of conformity and process sheet from Delastek is attached

0.00

APR 06 2016

FEB 22 2016

DAS

6

9-89

Received — 12 SP 16-04-13

DQA:

Date: 16/07/08

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed:

Date: 16/07/05

Work Order update only ☐

Work Order: 132217	DISPOSITION Rework ☒ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS				
Part No. D3322-011		Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	
NCR No. 16-5890		Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	
		Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	
		Large Fab ☐	Composite ☐	Supplier ☒		

Date: 16-04-27	Step #: 100	QTY Effective: 1	MRB (QS1042) Approval
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Description Work Order Deviation	Disposition	PD 16-04-27 Completed By Jh 16/07/04 Lead hand / Supervisor Approval Verification DAS 9 9-89 16-07-04 QC / QA Coordinator Approval DAS 9 9-89 16-07-04
1 rivet on D304B-1 was install incorrectly	remove defect rivet ADD 4 ABS and replace as per drawing M 127728 Jh. touch up rivet with primer	

Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☒ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☒ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER: ☐					

Monday, May 04, 2015 7:55:25 AM

Page 3

Accept

N900040100

Setup Start *NS1*

Revision ID:

Item Name: Pod Assembly

Stop *NS2*

Start Date: 7/10/2015 **Start Qty:** 1.00 ***1***

Cust Item ID:

Required Date: 7/10/2015 **Req'd Qty:** 1.00 ***1***

Customer:

Reference:

Approvals: **Process Plan:** _____ **Date:** _____ **Tooling:** _____ **Date:** _____

Run Start *NR1*

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop *NR2*

Sequence ID/
Work Center ID

Operation Description

Set Up/ Run Hours

Tool ID**Tool #****Plan
Code**

**Accept
Qty**

Reject
Qty

Reject Number

**Insp.
Stamp**

150

Identify as per dwg & Stock Location:_____

0.00

PPP 132219

150

0.00

Packaging

Memo

Packaging

DAS
27
9:59
Kelsie

160

QC21- Final Inspection - Work Order Release

0.00

160

0.00

QC

Memo

Quality Control

MCS MAY 27 2016
Jm 16/05/25

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
		OTHER : ☐			

Picklist Print

Page 1

Monday, May 04, 2015 7:55:24 AM

Work Order ID: 132217

132217

Parent Item: D3322-041

D3322-041

Parent Item Name: Pod Assembly

Start Date: 7/10/2015

Required Date: 7/10/2015

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP A04.11.12New IssueKJ/JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
AD62ABS *AD62ABS* rivet		Purchased	No			130	Each	47.0000	38	38			
**													
			<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>						
			st549		47								
			m128211		23								
			m128454		24								
AD64ABS *AD64ABS* Pop Rivet		Purchased	No			130	Each	304.0000	43	43			
**													
			<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>						
			CA		85								
			M128728		85								
			CCK004		219								
			M128728		219								
AD66ABS *AD66ABS* Pop Rivet		Purchased	No			130	Each	282.0000	2	2			
**													
			<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>						
			st549		282								
			112784		282								

DAS
13
9-89

MAY 27 2016

W/A
assemble at FDC

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
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Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

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D3322-041

Parent Item Name: Pod Assembly

Start Date: 7/10/2015

Required Date: 7/10/2015

Start Qty: 1.00

Required Qty: 1.00

AN4-5A Purchased No 130 Each 80.0000 19 19

AN4-5A

BOLT

Location	Loc Qty	Loc Code
CA	55	
m129682	55	
ST346	25	
106605	1	
120562	2	
m131800	22	

MAY 27 2016

DAS
13
9-89

N/A

AN4-6A Purchased No 130 Each 1,658.000 1 1

AN4-6A

BOLT

Location	Loc Qty	Loc Code
CA	143	
M128403	43	
M130851	100	
ST325A	1507	
M131153	1507	
ST345	8	
M128403	8	

assembled FDC

AN526C632R7 Purchased No 130 Each 153.0000 2 2

AN526C632R7

Screw

Location	Loc Qty	Loc Code
ST329	153	
m129339	153	

D2202-1P Purchased No 110 Each 0.0000 1 1

D2202-1P

Side Pod Lid, 350

1x sp/6-05-27

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
							Completed By		
							Lead hand / Supervisor Approval Verification		
					QC / QA Coordinator Approval				
Root Cause				FAULT CATEGORY					
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

Monday, May 04, 2015 7:55:24 AM

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132217

Parent Item: D3322-041

D3322-041

Parent Item Name: Pod Assembly

Start Date: 7/10/2015

Required Date: 7/10/2015

Start Qty: 1.00

Required Qty: 1.00

D2202-5P	Purchased	No	110	Each	0.0000	1	1	
D2202-5P								
Side Pod, Base 350								

** * 1x SP 16-05-27

D2204-9	Manufactured	No	130	Each	12.0000	5	5	
D2204-9								
Rubber Latches								

** CL 15/06/19

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
ST488a	12	
131885	12	

B 132294 4

D2429-041	Manufactured	No	130	Each	12.0000	1	1	
D2429-041								
Spring Clip Ass'Y								

** CL 15/05/25

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
ST007	12	
107585	2	
124757	10	

1 u

D2461	Manufactured	No		f	494.0000		15	
D2461								
Neoprene 'D' Seal (\$Per Foot)								

** CL 15/05/25

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
ST407	494	
114238	42.5	
128447	451.5	

15 u

D2528-1	Manufactured	No	130	Each	11.0000	5	5	
D2528-1								
Backer Plate								

** CL 15/05/25

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
ST007	11	
128878	11	

5 u

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabelled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

Picklist Print

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Monday, May 04, 2015 7:55:25 AM

Work Order ID: 132217

132217

Parent Item: D3322-041

D3322-041

Parent Item Name: Pod Assembly

Start Date: 7/10/2015

Required Date: 7/10/2015

Start Qty: 1.00

Required Qty: 1.00

D2528-3 Manufactured No 130 Each 11.0000 4 4

D2528-3

Backer Plate

**

CL15/05/25

Location Loc Qty Loc Code

ST007 11

110938 11

D2569 Manufactured No 130 Each 2.0000 1 1

D2569

Hinge

**

CL15/05/25

Location Loc Qty Loc Code

CA2 2

125408 2

D3001-1 Manufactured No 110 Each 8.0000 3 3

D3001-1

Doubler

**

CL15/05/25

Location Loc Qty Loc Code

ST487 8

128993 8

D3007-041 Manufactured No 130 Each 1.0000 1 1

D3007-041

Prop Assy

**

CL15/06/19

Location Loc Qty Loc Code

ST368 1

125141 1

B 132247 B 132247 x2
B 128993 x1
B 142 186 x3

B 132278

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
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Work Order ID: 132217

132217

Parent Item: D3322-041

D3322-041

Parent Item Name: Pod Assembly

Start Date: 7/10/2015

Required Date: 7/10/2015

Start Qty: 1.00

Required Qty: 1.00

D3048-1

Manufactured No

110

Each

3.0000

1

1

D3048-1

Doubler

CD 15/05/25

Location

Loc Qty

Loc Code

CA002

2

100618

2

CA2

1

52263

1

B107527

B132248

u

B140732 x1

MS21042L06

Purchased

No

100

Each

351.0000

2

2

MS21042L06

Nut

Location

Loc Qty

Loc Code

ST260a

300

m131317

300

ST304

42

m131294

42

ST305

9

m129499

9

MAY 27 2016

DAS
13
9-89

N/A

assemble @

FDC

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
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Root Cause		FAULT CATEGORY			
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Start Date: 7/10/2015

Required Date: 7/10/2015

Start Qty: 1.00

Required Qty: 1.00

MS21042L4

Purchased

No

130

Each

2,461.000

20

20

MS21042L4

Locknut

Location

Loc Qty

Loc Code

FP001

42

m124231

42

GA

224

m127813

224

ST260a

62

m130799

56

m131803

6

ST305

2133

m128300

8

m130388

16

m130922

97

m131618

12

m132123

2000

**DAS
13
9-89**

MAY 27 2016

N/A

NAS1149D0463J

Purchased

No

130

Each

4,697.000

21

21

NAS1149D0463J

WASHER

Location

Loc Qty

Loc Code

GA

41

M129390

41

ST269

4656

M129682

86

M130799

371

M132035

4199

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER :							
Misidentified ☐	Past Due ☐								

Picklist Print

Page 7

Monday, May 04, 2015 7:55:25 AM

Work Order ID: 132217

132217

Parent Item: D3322-041

D3322-041

Parent Item Name: Pod Assembly

Start Date: 7/10/2015

Required Date: 7/10/2015

Start Qty: 1.00

Required Qty: 1.00

NAS1149DN632J

Purchased

No

130

Each

126.0000

2

2

NAS1149DN632.J

Washer

Location

Loc Qty

Loc Code

ST270

126

M127255

77

M128812

49

MAY 27 2016

N/A

**DAS
13
9-89**

Monday, May 04, 2015 7:55:25 AM

Shop Packet Print

Page 7

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause		FAULT CATEGORY							
Environment ☐	☐ No Re-verification	☐ Pressure/Forced	☐ Temperature/Cure	☐ Power Loss/Surge	☐ Positioned Wrong				
Design ☐	☐ Operator	☐ Bending	☐ Set-up	☐ Folio/Program	☐ Outside Dimensions				
Doc/Data ☐	☐ Offset/Setup	☐ Centre Not Concentric	☐ BOM/Route	☐ Grain	☐ Over/Under tolerance				
Equip/Tooling ☐	☐ Supplier	☐ Cracks	☐ Broken/Damage/Defect	☐ Weld	☐ Part Incorrect				
Handling/Pre ☐	☐ Training	☐ Crimp/Kink/Ripple/Wave	☐ Inspection Incomplete/Unqualified	☐ Wrong Stock Pulled	☐ Part Lost/Missing				
Material ☐	☐ Use for Testing	☐ Cuffs	☐ Contamination	☐ Out of Sequence	☐ Part Moved				
Internal Transport ☐	☐ Poor Information	☐ Crushing	☐ Countersink	☐ Off-set	☐ Drawing				
Tribal Knowledge ☐	☐ Rushing	☐ Heat Treat	☐ Cut Too Short	☐ Mislabeled	☐ Finish				
LOA ☐	☐ Product Improvement	☐ Wave/Twist in Tube	☐ Instructions Incomplete/Unclear	☐ Fit/Function	☐ Misread				
Substation ☐	☐ Process Improvement	☐ Marks/Chatter	☐ Drill Holes	☐ Misaligned/off center	☐ Turning Sequence				
Past Expiry Date ☐	☐ Manufacturing Process	OTHER : _____							
Misidentified ☐	☐ Past Due								



DESIGN <i>CP</i>	DRAWN BY <i>CP</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>[Signature]</i>	APPROVED <i>[Signature]</i>	DRAWING NO. D3322	REV. A SHEET 1 OF 1
DATE 04.09.26		TITLE POD ASSEMBLY	SCALE 1:15
A	04.09.26	NEW ISSUE	

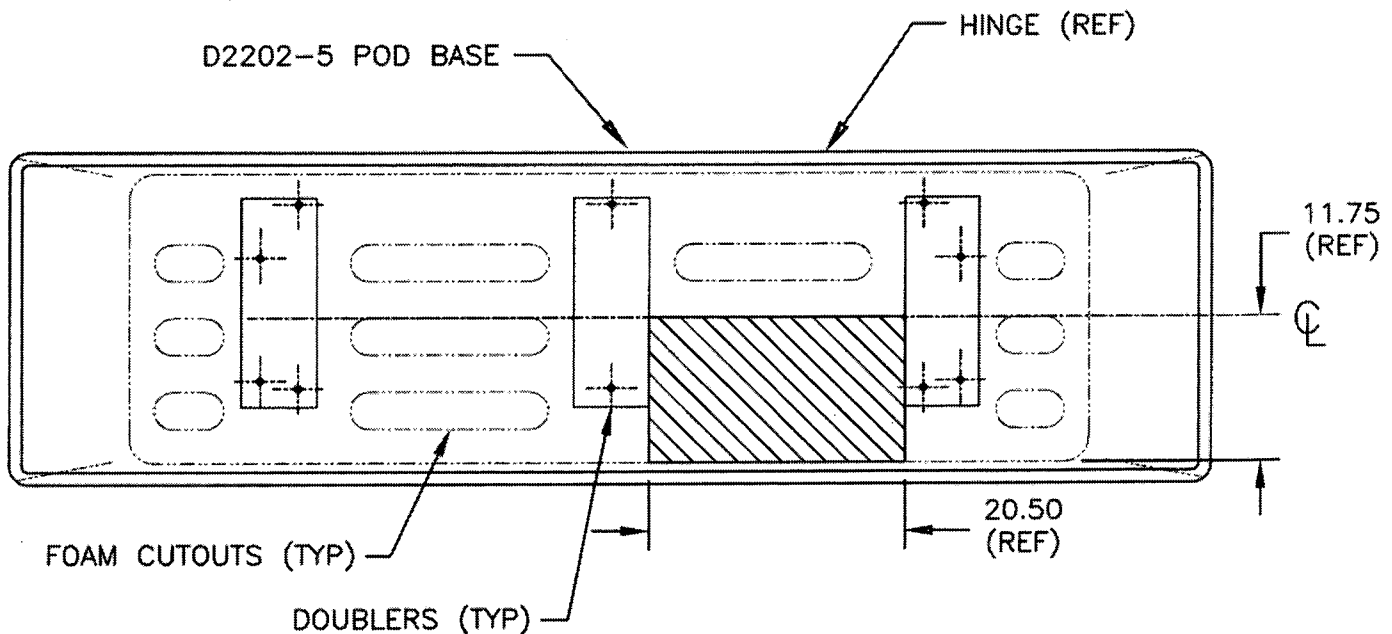
RELEASED
04.10.29 *[Signature]*

CL MAR 04 2015

W/O: 132217

D3322-041/-042 POD ASSEMBLY

- 1) THE D3322-041/-042 POD ASSEMBLIES ARE THE SAME AS THE D2694 POD ASSEMBLIES, EXCEPT THE D2202-3 POD BASE IS REPLACED WITH THE D2202-5 POD BASE



D3322-041 POD ASSEMBLY (SHOWN)
D3322-042 POD ASSEMBLY (OPPOSITE)

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :			MRB (QS1042) Approval
Description Work Order Deviation		Disposition			Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabelled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
		OTHER : ☐			

NOTES:

1) MATERIALS:

RESIN: EPOCAST 50-A/9816,
OR DERAKANE 470-36/411/510A40

FOAM: A500 CORE CELL,
OR DIVINYCELL,
OR AIREX,
0.38 THICK (3/8 FOAM)

FIBRE: 9.7 oz 7781 WEAVE "S" GLASS (9 oz SATIN)
5 oz PLAIN WEAVE KEVLAR (5 oz KEVLAR)

2) FINISH: INSIDE = PRIME PER DART QSI 005 4.2
OUTSIDE = WHITE GELCOAT #GEL 944W005

3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED

4) UNITS: INCHES UNLESS OTHERWISE NOTED

5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX

6) IDENTIFICATION: NONE

7) WEIGHT: N/A

8) LAMINATE PER DART QSI 006.
LAMINATION SCHEDULE PER THIS DRAWING.

9) PEEL PLY ALL SURFACES.

RELEASED
2010-10-28
AM

G	REFORMAT DRAWING TO CURRENT STANDARDS; D2202-101 WAS D2202-1 (ZN C5-2, A4-2); ADD 77.5 & 22.0 DIM. (ZN D4-3, C6-3); D2202-103 WAS D2202-5 (ZN C5-3, A4-3); ADD 2.00 MAX (ZN D3-4); INCORPORATED DEO 9217 & ADD D2202-5/-6 ON SHEET 5 PER PAR 09-034	RF	09.10.06
F	CHANGE LAYOUT, DOUBLER, NOW DRILLED	CP	01.03.14
E	ADDED SECTIONS WITH LIP DIMS	KE	99.11.11
D	MOVED DOUBLERS, REMOVED HOLES	KE	98.11.09
C	REVISED DOUBLER/HOLES LOCATIONS	KE	97.07.04
B	ADD DOUBLERS AND HOLES	-	93.10.27
A	NEW ISSUE	-	93.10.27
REV.	DESCRIPTION	BY	DATE
DESIGN	KE	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	JP	DRAWING NO.	REV. G
MFG. APPR.	JM	D2202	SHEET 1 OF 5
APPROVED	AM	TITLE	SCALE
DE APPR.	AM	UTILITY POD LID AND BASE	NTS
DATE	09.10.06	COPYRIGHT © 1993 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COMBINED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

DQA: _____ Date: _____



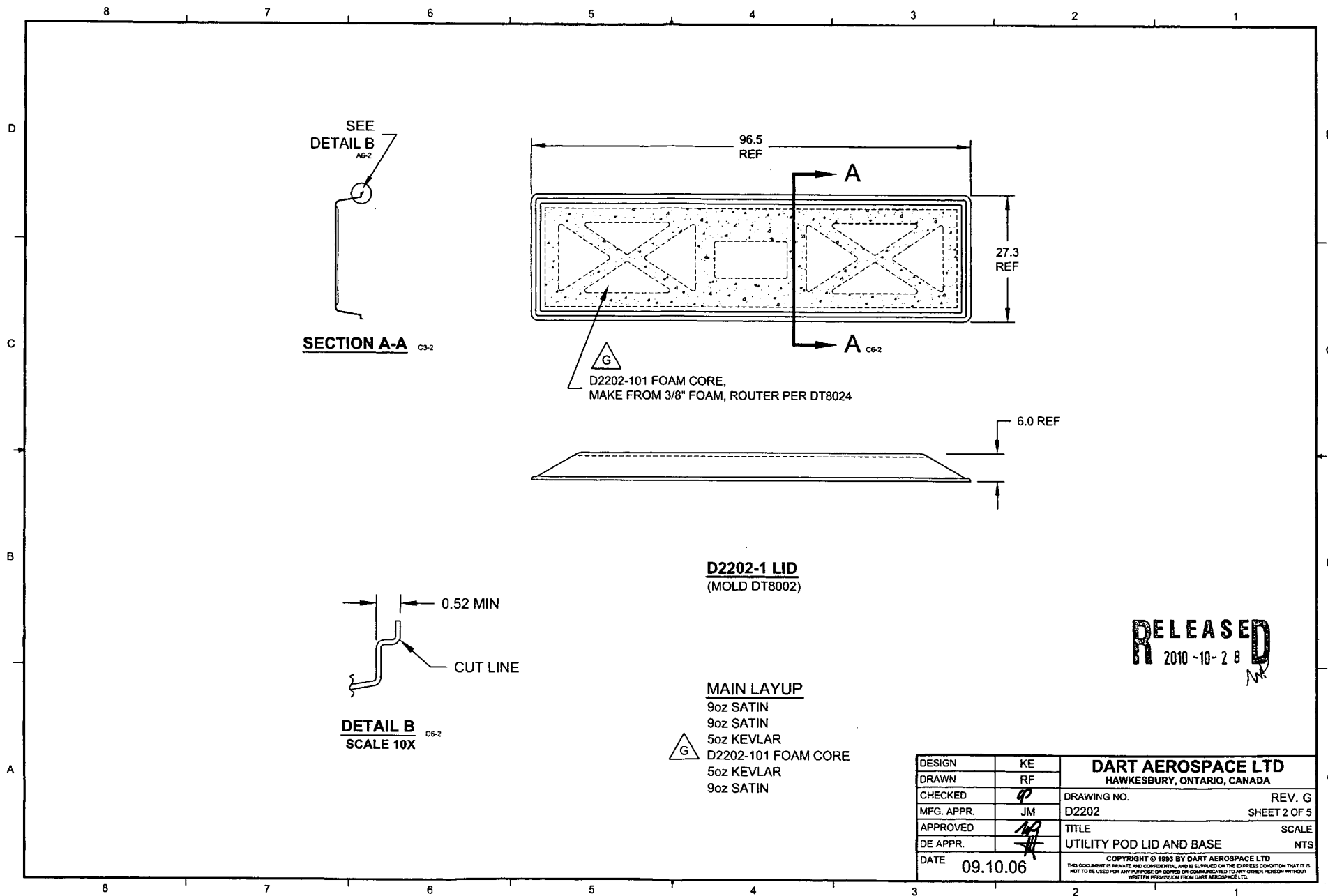
WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Description Work Order Deviation				Disposition					

Root Cause			FAULT CATEGORY							
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong
Design	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence
Past Expiry Date	☐	Manufacturing Process	OTHER : _____							
Misidentified	☐	Past Due								



DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

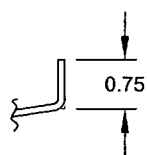
Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation			Disposition		
			Completed By		
			Lead hand / Supervisor Approval Verification		
			QC / QA Coordinator Approval		
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : ☐					

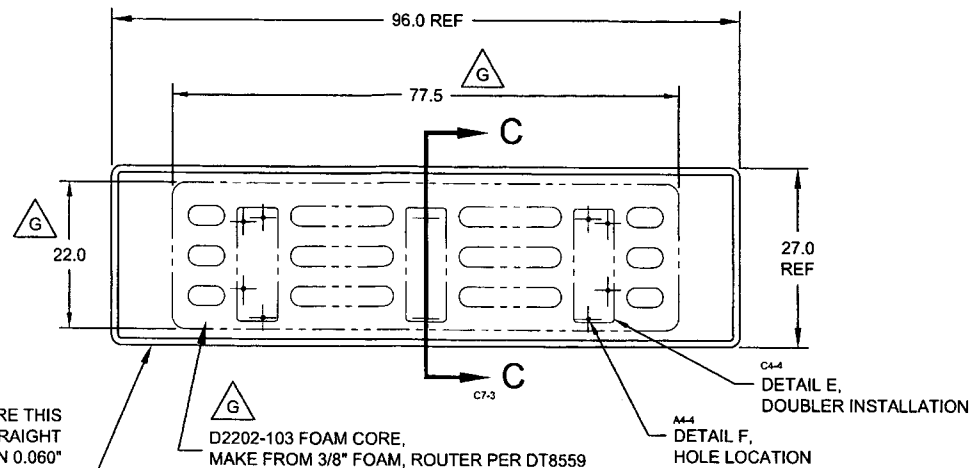
SEE
DETAIL D
B7-3

SECTION C-C C4-3

ENSURE THIS
EDGE IS STRAIGHT
WITHIN 0.060"
AFTER TRIMMING



DETAIL D
SCALE 10X
D7-3



D2202-3 BASE
(MOLD DT8002)

MAIN LAYUP

9oz SATIN
9oz SATIN
5oz KEVLAR
D2202-103 FOAM CORE
5oz KEVLAR
5oz KEVLAR
9oz SATIN

RELEASED
2010-10-28

DESIGN	KE	DART AEROSPACE LTD	
DRAWN	RF	HAWKESBURY, ONTARIO, CANADA	
CHECKED	JP	DRAWING NO.	REV. G
MFG. APPR.	JM	D2202	SHEET 3 OF 5
APPROVED	JP	TITLE	SCALE
DE APPR.	JP	UTILITY POD LID AND BASE	NTS
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DQA: _____ Date: _____

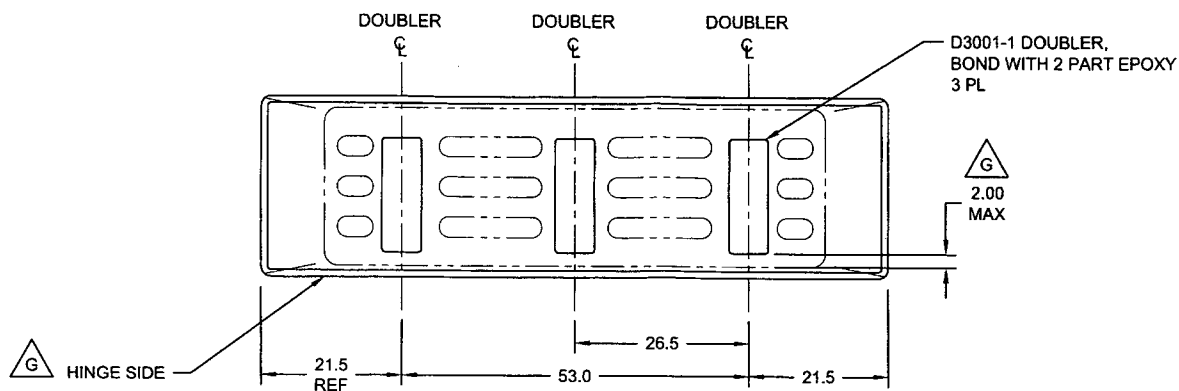


WORK ORDER NON-CONFORMANCE / UPDATE

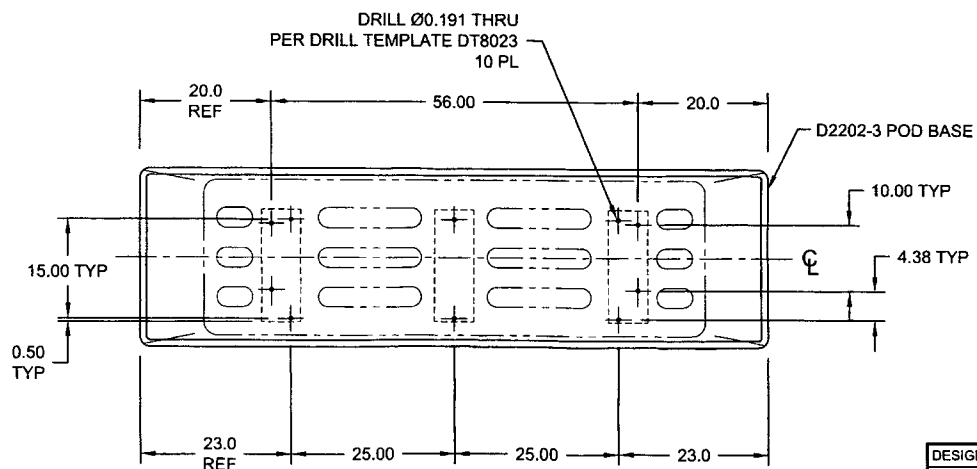
QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabelled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					



DETAIL E: INSTALLATION OF D3001-1 DOUBLERS C3-3



DETAIL F: HOLE DRILLING
(AFTER DOUBLER INSTALLATION) C3-3

RELEASED
2010-10-28

DESIGN	KE	DART AEROSPACE LTD	
DRAWN	RF	HAWKESBURY, ONTARIO, CANADA	
CHECKED	JP	DRAWING NO.	REV. G
MFG. APPR.	JM	D2202	SHEET 4 OF 5
APPROVED	JP	TITLE	SCALE
DE APPR.	JP	UTILITY POD LID AND BASE	NTS
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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

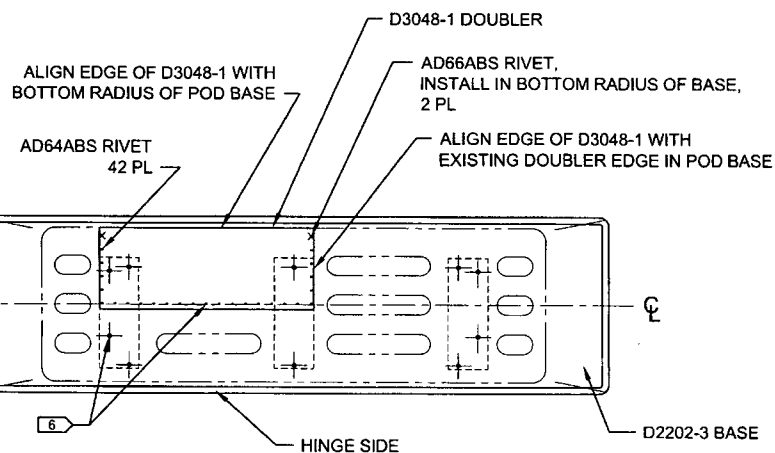
Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QS1042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabelled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : _____					

NOTES : TO MAKE A D2202-5/-6 BASE (FOR D350-602-013/-014) FROM A D2202-3 BASE

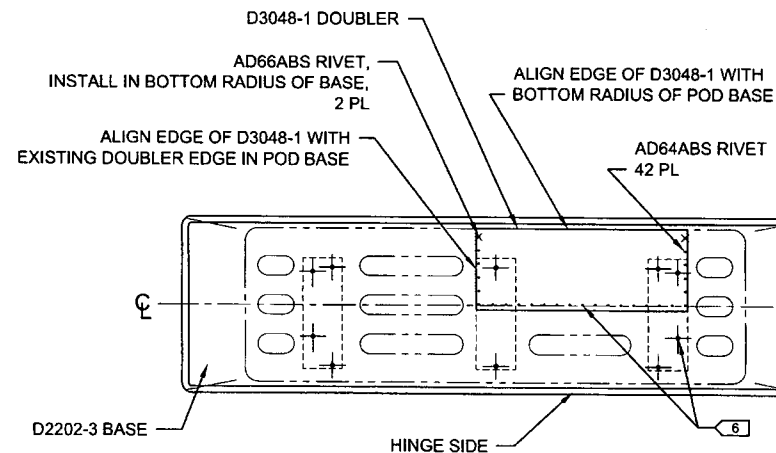
- 1) REMOVE FOAM IN AREA OF POD BASE WHERE D3048-1 DOUBLER WILL BE INSTALLED
- 2) FILL GAPS WITH 9oz SATIN AND RESIN PER DWG (APPROX. 3-4 LAYERS)
- 3) 2 LAYERS OF 9oz SATIN
- 4) BOND D3048-1 DOUBLER IN ORIENTATION SHOWN AND LET CURE
- 5) TRANSFER Ø0.125 HOLES FROM D3048-1 TO POD BASE. INSTALL DOUBLER WITH AD64ABS RIVETS (42) AND AD66ABS (2)
- 6) TRANSFER Ø0.191 HOLES FROM POD BASE TO D3048-1. SEAL HOLES WITH CYANOACRYLATE GLUE
- 7) TOUCH UP AFFECTED AREA WITH GREY PRIMER PER DWG
- 8) FILL CENTER OF THE AD RIVETS WITH RTV 732 TO SEAL

PART LIST:

QTY -5	QTY -6	PART NUMBER	DESCRIPTION
X		D2202-5	POD BASE
	X	D2202-6	POD BASE
1	1	D2202-3	BASE
1	1	D3048-1	DOUBLER
42	42	AD64ABS	RIVET
2	2	AD66ABS	RIVET
A/R	A/R	RTV	SEALANT



D2202-5 BASE: D3048-1 DOUBLER INSTALLATION
(MAKE FROM D2202-3 BASE)



D2202-6 BASE: D3048-1 DOUBLER INSTALLATION
(MAKE FROM D2202-3 BASE)

DESIGN	KE	DART AEROSPACE LTD	
DRAWN	RF	HAWKESBURY, ONTARIO, CANADA	
CHECKED	90	DRAWING NO.	REV. G
MFG. APPR.	JM	D2202	SHEET 5 OF 5
APPROVED	11	TITLE	SCALE
DE APPR.	11	UTILITY POD LID AND BASE	NTS
DATE	09.10.06	COPYRIGHT © 1993 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE UNDERSTANDING THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

RELEASED
2010-10-2

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Description Work Order Deviation		Disposition			

Root Cause	FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	OTHER : ☐	

Linda Lacelle

From: Karim Malihy <malihyk@fdccomposites.com>
Sent: Friday, January 15, 2016 9:07 AM
To: Linda Lacelle
Cc: Stéphane Pageau
Subject: Re: FDC Composites Inc. - Payment of Utility Pods

Good morning,

D3048-1 B107523



D3001-1 B132247



Thank you.

2016-01-15 8:40 GMT-05:00 Stéphane Pageau <pageaus@fdccomposites.com>:

Stéphane Pageau
Technicien en chef,
Lead Technician,
FDC Composites Inc.

45, Chemin de l'Aéroport,(H2)
Saint-Jean-sur-Richelieu, Québec, Canada J3B 7B5
Tel: 450.357.1344, 411
Cell:450-210-1611
Fax : 450.357.1194

pageaus@FDCcomposites.com
www.FDCcomposites.com

IMPORTANT NOTICE: ©The information contained in this document and its attachements is FDC

FDC Composites inc.
45, Chemin de L'Aéroport
Local 26
Saint-Jean-sur-Richelieu (QC)
J3B 7B5
Tél.: 450 357-1344

Bon de livraison

18/02/2016

Commande : 2342
Référence : PO #28357/1-8

Client : Dart

DART AEROSPACE
1270 Aberdeen Street
Hawksbury, ON
K6A 1K7

Expédier à

Même

Tél.: 1 613 632-9577

No item	Description	Qté	Qté livrée	Qté B/O
D2202-1P	Side Pod Lid, 350 PO item: 28357/1 Lot: FDC 2015-11-02 / Dart B132209	1	<u>1</u>	
D2202-3P	Side Pod Base, 350 PO item: 28357/2 Lot: FDC 2015-11-02 / Dart B132209	1	<u>1</u>	
D2202-1P	Side Pod Lid, 350 PO item: 28357/3 Lot: FDC 2015-11-04 FAI / Dart B132210	1	<u>1</u>	
D2202-3P	Side Pod Base, 350 PO item: 28357/4 Lot: FDC 2015-11-04 FAI / Dart B132210	1	<u>1</u>	
D2202-1P	Side Pod Lid, 350 PO item: 28357/5 Lot: FDC 2015-11-03 / Dart B132216	1		
D2202-5P	Side Pod Base, 350 PO item: 28357/6 Lot: FDC 2015-11-03 / Dart B132216	1		
D2202-1P	Side Pod Lid, 350 PO item: 28357/7 Lot: FDC 2015-11-06 FAI / Dart B132217	1		
D2202-5P	Side Pod Base, 350 PO item: 28357/8 Lot: FDC 2015-11-06 FAI / Dart B132217	1		

Transport : _____

Réf. : _____

Nb colis : _____

Marchandise reçue : _____



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CERTIFICATE of CONFORMITY

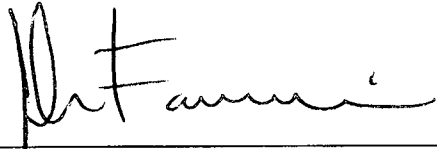
Customer Name: Dart Aerospace.

Customer P/O Number: 28357

<u>PO Item</u>	<u>Qty</u>	<u>Part number</u>	<u>Dwg number Part</u>	<u>Dart ID</u>	<u>Dwg number Assy</u>	<u>FDC ID</u>	<u>Lot</u>
1	1	D2202-1P Pod Lid	D2202 Rev.G	B132209	D2694 Rev.I	DAE002-001	2015-11-02
2	1	D2202-3P Pod Base	D2202 Rev.G				
3	1	D2202-1P Pod Lid	D2202 Rev.G	B132210	D2694 Rev.I	DAE002-003	2015-11-04 FAI
4	1	D2202-3P Pod Base	D2202 Rev.G				
5	1	D2202-1P Pod Lid	D2202 Rev.G	B132216	D3322 Rev.A	DAE002-002	2015-11-03
6	1	D2202-5P Pod Base	D2202 Rev.G				
7	1	D2202-1P Pod Lid	D2202 Rev.G	B132217	D3322 Rev.A	DAE002-004	2015-11-06 FAI
8	1	D2202-5P Pod Base	D2202 Rev.G				

FAI articles: Lines 3&4 and Lines 7&8.

I hereby certify that the workmanship, material and the processes used in the manufacture of the above part(s) supplied are in accordance with the requirements of the applicable Purchase Order.

Signature: 
Jules Fournier, BDI, Quality Manager

Date: 2016-02-18



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO28357

Purchase Order Date 5/5/2015

PO Print Date 5/5/2015

Page Number 1 of 5

Order From : VC-FDC01
FDC COMPOSITES INC.
45 CHEMIN DE L'AEROPORT
LOCAL 26
ST-JEAN-SUR-RICHELIEU, QUEBEC J3B 7B5

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 450-357-1344 ext303

Ship To Contact
Ship To Phone
Ship Via:
Ship Acct:

Buyer
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB Destination-Collect

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	D2202-1P	Side Pod Lid, 350	7/3/2015 Yes 7/3/2015		1.00 Each	\$3,600.00	\$3,600.00
	AS PER DWG D2202 REV. G / D2694 REV. I B132209						
	Line Total:						\$3,600.00
2	D2202-3P	Side Pod Base, 350	7/3/2015 Yes 7/3/2015		1.00 Each	\$3,600.00	\$3,600.00
	AS PER DWG D2202 REV. G / D2694 REV. I B132209						
	Line Total:						\$3,600.00
3	D2202-1P	Side Pod Lid, 350	7/24/2015 Yes 7/24/2015		1.00 Each	\$3,600.00	\$3,600.00
	AS PER DWG D2202 REV. G / D2694 REV. I B132210						

PO Instructions: QUOTE # 1246

Note:

5/5/2015



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO28357**

Purchase Order Date 5/5/2015

PO Print Date 5/5/2015

Page Number 2 of 5

Order From :

VC-FDC01

FDC COMPOSITES INC.
45 CHEMIN DE L'AEROPORT
LOCAL 26
ST-JEAN-SUR-RICHELIEU, QUEBEC J3B 7B5

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone

450-357-1344 ext303

Ship To Contact

Ship To Phone

Ship Via:

Ship Acct:

Buyer

Customer POID

Customer Tax #

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30

CAD

Destination-Collect

Line Total: \$3,600.00

4 D2202-3P Side Pod Base, 350

7/24/2015

Yes

7/24/2015

1.00

Each

\$3,600.00

\$3,600.00

AS PER DWG D2202 REV. G / D2694 REV. I
B132210

Line Total: \$3,600.00

5 D2202-1P Side Pod Lid, 350

7/3/2015

Yes

7/3/2015

1.00

Each

\$3,600.00

\$3,600.00

AS PER DWG D2202 REV. G / D3322 REV. A
B132216

Line Total: \$3,600.00

6 D2202-5P Side Pod, Base 350

7/3/2015

Yes

7/3/2015

1.00

Each

\$3,600.00

\$3,600.00

AS PER DWG D2202 REV. G / D3322 REV. A
B132216

16 1/2 1/2 ~
50

PO Instructions: QUOTE # 1246

Note:

5/5/2015

PURCHASE ORDER
Purchase Order ID PO28357

Purchase Order Date 5/5/2015
PO Print Date 5/5/2015

Page Number 3 of 5

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

VC-FDC01

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

From :
FDC COMPOSITES INC.
45 CHEMIN DE L'AEROPORT
LOCAL 26
ST-JEAN-SUR-RICHELIEU, QUEBEC J3B 7B5

Contact Name		Buyer	Chantal Lavoie
Vendor Phone	450-357-1344 ext303	Customer POID	
Ship To Contact		Customer Tax #	10127-2607
Ship To Phone		Terms	Net 30
Ship Via:		Currency	CAD
Ship Acct:		FOB	Destination-Collect

Line Total: \$3,600.00

\$3,600.00 \$3,600.00

AS PER DWG D2202 REV. G / D3322 REV. A
B132217

Line Total: \$3,600.00

\$3,600.00 \$3,600.00

AS PER DWG D2202 REV. G / D3322 REV. A
B132217

Line Total: \$3,600.00

\$2,900.00 \$2,900.00

PO Instructions: QUOTE # 1246

Note:

5/5/2015



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

OUTSTANDING PO REPRINT

Purchase Order ID PO28357

Purchase Order Date 5/5/2015

PO Print Date 3/30/2016

Page Number 3 of 3

Order From : VC-FDC01
FDC COMPOSITES INC.
45 CHEMIN DE L'AEROPORT
LOCAL 26
ST-JEAN-SUR-RICHELIEU, QUEBEC J3B 7B5

Ship To : DART AEROSPACE LTD
1270
ABERD
EEN
HAWKE
SBURY,
ON
K6A
1K7
CANAD
A

Contact Name	Buyer	Chantal Lavoie
Vendor Phone 450-357-1344 ext303	Customer POID	
Vendor Fax 450-357-1194	Customer Tax #	10127-2607
Ship To Contact	Terms	Net 30
Ship To Phone	Currency	CAD
	FOB	Destination-Collect

Ship Method —
Ship Acct

Line Nbr	Item ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty	Extended Price
7	132217	D3322-041 PODS, REPAIR	4/6/2016 Yes 4/6/2016	1.00	\$1,850.00
replacement doubler will be inside of pods D3001-1 missing 3 pcs, will ship later this week D3048-1 B140732 x 1 pcs price for phase #1 975.00\$ price for phase #2 875.00\$					

Line Total: \$1,850.00

Outstanding PO Total: \$7,400.00

PO Instructions: QUOTE # 1246

Change Nbr: 15

Change Date: 3/30/2016

Terms & Condition of
Purchasing(Suppliers) and
Procurement Quality Clauses are an
integral part of our AS9100

FDC Composites inc.
45, Chemin de L'Aéroport
Local 26
Saint-Jean-sur-Richelieu (QC)
J3B 7B5
Tél. : 450 357-1344

Bon de livraison

31/03/2016

Commande : 2402
Référence : PO #28357/14-17

Client : Dart

DART AEROSPACE
1270 Aberdeen Street
Hawksbury, ON
K6A 1K7

Expédier à

Même

Tél. : 1 613 632-9577

<i>No item</i>	<i>Description</i>	<i>Qté</i>	<i>Qté livrée</i>	<i>Qté B/O</i>
132210	D2694 Pods, Repair PO item: 28357/14 Replacement doubler will be inside Of pods D3001-1 B128993 x 3 pcs Price for phase 1 (975.00 \$) Price for phase 2 (875.00 \$)	1	_____	_____
132209	D2694 Pods, Repair PO item: 28357/15 Replacement doubler will be inside Of pods D3001-1 B128993 x 3 pcs Price for phase 1 (975.00 \$) Price for phase 2 (875.00 \$)	1	_____	_____
132216	D3322-041 Pods, Repair PO item: 28357/16 Replacement doubler will be inside Of pods D3001-1 B128993 x 1 pcs, missing 2 pcs Will ship later this week D3048-1 B140732 x 1 pcs Price for phase 1 (975.00 \$) Price for phase 2 (875.00 \$)	1	_____	_____
132217	D3322-041 Pods, Repair ✓ PO item: 28357/17 Replacement doubler will be inside of pods Of pods	1	_____	_____

*** Suite autre page ***

FDC Composites inc.
45, Chemin de L'Aéroport
Local 26
Saint-Jean-sur-Richelieu (QC)
J3B 7B5
Tél.: 450 357-1344

Bon de livraison

31/03/2016

Commande : 2402
Référence : PO #28357/14-17

Client : Dart

DART AEROSPACE
1270 Aberdeen Street
Hawksbury, ON
K6A 1K7

Expédier à

Même

Tél.: 1 613 632-9577

No item	Description	Qté	Qté livrée	Qté B/O
	D3001-1 missing 3 pcs			
	Will ship later this week			
	D3048-1 B140732 x 1 pcs			
	Price for phase 1 (975.00 \$)			
	Price for phase 2 (875.00 \$)			

OP 16-04-17.

Transport : _____

Nb colis : _____

Marchandise reçue : _____

Réf. : _____

CERTIFICATE of CONFORMITY

Customer Name: Dart Aerospace.

Customer P/O Number: 28357

FDC Quote: 1246

Revision: A

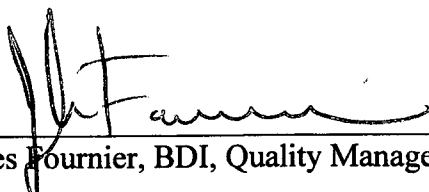
<u>PO Item</u>	<u>Qty</u>	<u>Part number</u>	<u>Dwg number Part</u>	<u>Dart ID</u>	<u>Dwg number Assy</u>	<u>FDC ID</u>	<u>Lot</u>
15	1	D2694 Utility Pod	D2202 Rev.G	B132209	D2694 Rev.I	DAE002-001	2015-11-02
14	1	D2694 Utility Pod	D2202 Rev.G	B132210	D2694 Rev.I	DAE002-003	2015-11-04 FAI
16	1	D3322-041 Utility Pod	D2202 Rev.G	B132216	D3322 Rev.A	DAE002-002	2015-11-03
17/✓	1	✓ D3322-041 Utility Pod	✓ D2202 Rev.G	B132217 ✓	D3322 Rev.A	DAE002-004	2015-11-06 FAI

FAI articles: Lines 3&4 and Lines 7&8.

SP16-04-B

Repaired as per Dart's special instructions: Replacement of doubler inside of pods.

I hereby certify that the workmanship, material and the processes used in the manufacture of the above part(s) supplied are in accordance with the requirements of the applicable Purchase Order.

Signature: 
 Jules Fournier, BDI, Quality Manager

Date: 2016-03-31